

# Converting Colors

XYZ(64.0285, 42.6394, 84.1261)

Have a look what the booklet for  
XYZ(64.0285, 42.6394, 84.1261)  
contains.

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# Color

**XYZ(64.0995, 42.7545,  
84.2309)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FF80EC
RGB	255, 128, 236
RGB Percent	100%, 50%, 93%
CMY	0.0000, 0.4980, 0.0745
CMYK	0.00, 0.50, 0.07, 0.00
HSL	309°, 100%, 75%
HSV	309°, 50%, 100%
XYZ	64.0995, 42.7545, 84.2309
YIQ	178.2850, 41.0240, 60.5120

# Conversions

## Conversions Part 2

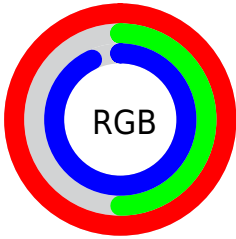
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	255, 128, 236
Decimal	16744684
CIE Lab	71.39, 61.80, -32.93
CIE LCh	71, 70.025, 331.950
Yxy	42.7545, 0.3355, 0.2237
Android (android.graphics.Color)	4294934764 (0xFFFF80EC)
YUV	178.2850, 28.4535, 67.2791
Hunter-Lab	65.3869, 60.5583, -30.6060

# Details

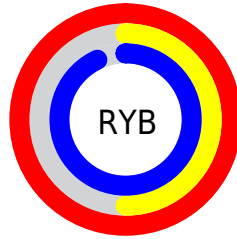
The XYZ color **64.0995, 42.7545, 84.2309** is a light color, and the websafe version is hex **FF99FF**. A complement of this color would be **49.9300, 78.2165, 40.0719**, and the grayscale version is **42.3079, 44.5112, 48.4727**.

A 20% lighter version of the original color is **76.6390, 63.1779, 102.7630**, and **33.3205, 19.6658, 45.2197** is the 20% darker color. If you saturate the color by 10%, you get **60.6332, 36.6994, 80.3703**, and if you desaturate by 10%, it is **68.4151, 50.4890, 88.4341**.

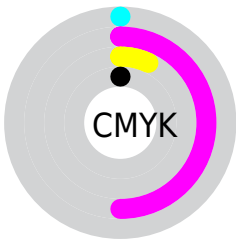
# Distribution



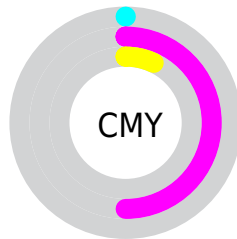
- Red (100%)
- Green (50%)
- Blue (93%)



- Red (100%)
- Yellow (50%)
- Blue (93%)



- Cyan (0%)
- Magenta (50%)
- Yellow (7%)
- Black (0%)




- Cyan (0%)
- Magenta (50%)
- Yellow (7%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 64.0995, 42.7545, 84.2309 changes by changing the brightness by 10 percent. The first figure shows a shift by +10% for each color and the second figure -10%.


Similar to the brightness gradients but the following saturation gradients show a change of the XYZ color 64.0995, 42.7545, 84.2309 by changing the saturation by 10% instead.




 64.0995, 42.7545,  
84.2309


 64.0995, 42.7545,  
84.2309


429.1454,  
357.6012, 529.1578


 46.9933, 29.6925,  
62.6596

 109.8272, 79.3403,  
141.1627

 33.2382, 19.6053,  
45.1267


 139.1793,  
103.6328, 177.3603

 22.4691, 12.1085,  
31.2135


 173.3441,  
132.4378, 219.2705

 14.3205, 6.8176,  
20.5017

212.6869,  
166.1394, 267.3116

 8.4271, 3.3483,  
12.5725

257.5730,  
205.1222, 321.9024

 4.4235, 1.3162,  
7.0076

308.3679,

 1.9444, 0.1537,

249.7705, 383.4613

3.3883

365.4369,  
300.4687, 452.4069

■ 0.6025, 0.0000,  
1.2962

■ 0.0000, 0.0000,  
0.0587

■ 64.0995, 42.7545,  
84.2309

■ 64.0995, 42.7545,  
84.2309

■ 60.6332, 36.6994,  
80.3703

■ 68.4151, 50.4890,  
88.4341

■ 57.9495, 32.1907,  
76.8280

■ 73.6345, 60.0121,  
92.9968

■ 55.9761, 29.0842,  
73.5803

■ 79.8109, 71.4299,  
97.9376

■ 54.6262, 27.2057,  
70.5977

■ 86.9924, 84.8388,  
103.2730

■ 53.7602, 26.2769,  
67.8334

95.0500, 100.0000,  
108.9000

■ 53.7449, 26.2619,  
67.7797

# Harmonies

## Analogous

The Analogous color harmony consists of three colors that are next to each other on the color wheel.



53.8486, 42.7545, 126.2004



64.0995, 42.7545, 84.2309



67.7565, 42.7545, 44.3785

# Triad

The Triadic color harmony groups three colors that are evenly spaced from another and form a triangle on the color wheel.



64.0995, 42.7545, 84.2309



39.8705, 42.7545, 7.1489



24.2804, 42.7545, 90.0399

# Complementary

The Complementary color scheme is a pair of colors which are on the opposite of each other on the color wheel.



64.0995, 42.7545, 84.2309



49.9300, 78.2165, 40.0719

# Split Complementary

Split-complementary colors differ from the complementary color scheme. The scheme consists of three colors, the original color and two neighbors of the complement color.



21.9341, 42.7545, 48.7962



64.0995, 42.7545, 84.2309



29.7849, 42.7545, 10.3419

# Square

The Square scheme is like the rectangle color scheme, but the four colors are evenly spaced on the color wheel.



64.0995, 42.7545, 84.2309



52.2531, 42.7545, 9.5527



23.7374, 42.7545, 22.2150



30.8840, 42.7545, 130.5434



# Rectangle

The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



64.0995, 42.7545, 84.2309



65.4906, 42.7545, 26.2611



23.7374, 42.7545, 22.2150



23.0323, 42.7545, 75.2736

# Sweetspot

The Sweet Spot groups the original color and five complimentary colors.



64.1005, 42.7562, 84.2317



83.1307, 77.6138, 100.4491



37.4364, 28.6743, 98.1693



17.4752, 16.0192, 21.2618



0.0000, 0.0000, 0.0000



20.3446, 21.4041, 23.3091



# Same Dimension

The Same Dimension uses a secret algorithm to generate beautiful new colors.



64.1005, 42.7562, 84.2317



60.5725, 36.5952, 80.2969



56.6558, 39.7784, 45.0287



18.6690, 18.2509, 22.1399



28.1272, 13.7402, 35.6499



2.7690, 1.3500, 3.6309



# Inverse Universe

The Inverse Universe completely reimagines the original color for something new.



64.1005, 42.7562, 84.2317



60.5725, 36.5952, 80.2969



56.1020, 80.6853, 72.5729



18.6690, 18.2509, 22.1399



28.1272, 13.7402, 35.6499



2.7690, 1.3500, 3.6309



# Previews

## White Background



This preview shows how the XYZ color 64.0995, 42.7545, 84.2309 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

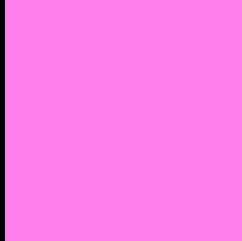
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 64.0995, 42.7545, 84.2309 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

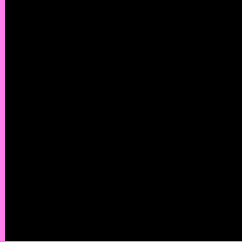
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 64.0995, 42.7545, 84.2309**

## **Background**



This preview shows how black text looks on a background with the XYZ color 64.0995, 42.7545, 84.2309.



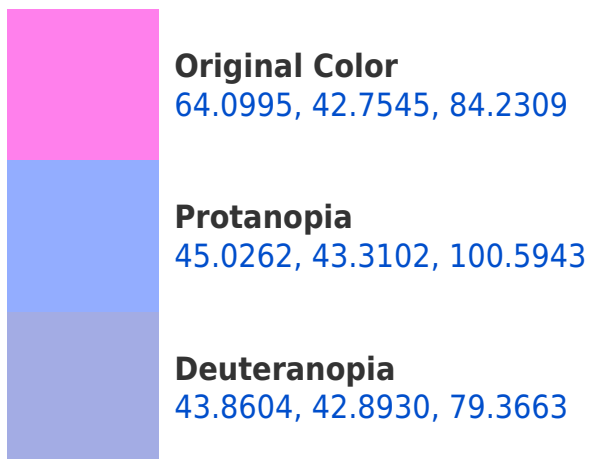
This preview shows how white text looks on a background with the XYZ color 64.0995, 42.7545,



# Color Blindness Simulation

Color vision deficiency is a very complex topic, and I could not describe the different causes any better than Wikipedia does, so if you want to learn more, you should check out their [article about color blindness](#).

## Dichromacy





## Tritanopia

54.3707, 42.5849, 37.2523

# Trichromacy



## Original Color

64.0995, 42.7545, 84.2309



## Protanomaly

49.2499, 41.3304, 94.1887



## Deuteranomaly

49.0772, 41.2822, 80.9829



## Tritanomaly

57.1625, 42.1501, 51.5774

# Monochromacy



## Original Color

64.0995, 42.7545, 84.2309



## Achromatopsia

42.3164, 44.5201, 48.4824



## Achromatomaly

48.3332, 42.3869, 59.6669

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 64.0995, 42.7545, 84.2309 is called "color". The color property can be set on classes, ids or directly on the HTML element.

This example shows how text in the color `rgb(255, 128, 236)` looks like.

```
.text, #text, p{  
    color:rgb(255, 128, 236)  
}
```

If you want to add a text shadow in that color use the text-shadow property, you can generate a text shadow directly with our [CSS Text Shadow Generator](#).

Here you see how black text with a 4 pixel rgb(255, 128, 236) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 128, 236) }
```

## Border

The CSS property to change the border of an element to XYZ 64.0995, 42.7545, 84.2309 is called "border". The border property can be set on classes, ids or directly on the HTML element.

This example shows the color as border, it can be applied via the CSS property "border" or "border-color".

```
.border, #border, table{ border:4px solid rgb(255, 128, 236) }
```



If only the border color should be changed use the property `border-color`.

```
.border{ border-color:rgb(255, 128, 236) }
```

If you want to add a box shadow in that color use:

Here you see how a box with a 4 pixel `rgb(255, 128, 236)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 128, 236); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 128, 236);  
box-shadow:4px 4px 4px 4px rgb(255, 128,  
236) }
```

# Background

The CSS property to change the background color of an element to XYZ 64.0995, 42.7545, 84.2309 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 128, 236) }
```

If only the background color should be changed can be used:

```
.background{ background-color: rgb(255,  
128, 236) }
```

This example shows the color as background, it is applied via the CSS property "background".

To optimize and compress your CSS code, you can use our [online CSS compressor and optimizer](#) based on csstidy. If you want to create a linear or radial gradient as background or border, check our [CSS Gradient Generator](#).

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